

MEERER

CHICAGO, U.S.A.

THE NEW YORK
COMMISSION

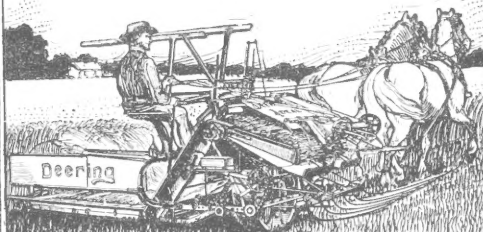
DEERING

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ONE HUNDRED YEARS AGO

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HE 100th anniversary of what is known as the "Louisiana Purchase" will be celebrated in the United States this year. A World's Fair will be held at St. Louis in honor of the event and known as the "Louisiana Purchase Exposition."

The territory purchased by the United States and added to its already vast domain consisted of that region lying west of the Mississippi River, then belonging to France and called "Louisiana."

This immense territory was purchased from France on the 30th day of April, 1803, and comprised a large portion of what is now the best grass, grain, and Indian corn producing section of the United States, which district now grows grain for feeding a large share of the world's population.

The changes that have taken place, especially in America, during the last one hundred years are marvelous, and no change is more striking than in the methods of harvesting grain.

In the decorative part of this booklet are illustrated scenes in America showing life as it was one hundred years ago, while a sharp contrast will be found in the mechanical part of the contents where Deering up-to-date and modern harvesting machines are described.

There were no harvesting machines one hundred years ago.

INTERNATIONAL HARVESTER COMPANY OF AMERICA.

(INCORPORATED)

January 1, 1904.



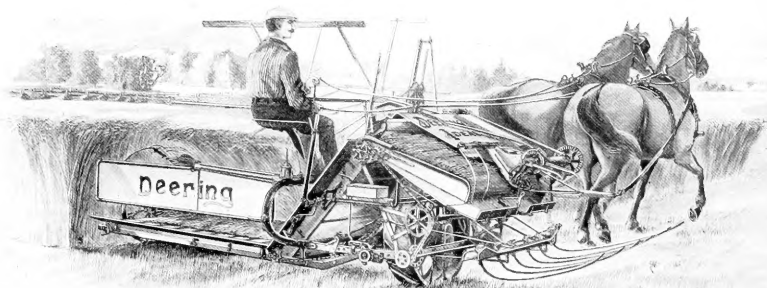
DEERING IDEAL BINDER



One hundred years ago there were no wonderful grain binding machines to lighten the labor of the farmer. In fact, it is about thirty years ago that the first grain binder was placed upon the market by the predecessors of the present manufacturers of the Deering Ideal Binder.

Since its first inception this machine has been constantly improved, and it is now as near perfection as human ingenuity can make it.

Every new and valuable improvement in self binders is contained in this marvelous machine. Strong, durable, efficient, yet a model of simplicity, it has proved a boon to farmers in every part of the globe. Every tongue spoken by civilized people has chanted the praises of the Deering Ideal Binder. To impress the few who are not acquainted with the many points of excellence found in this machine, we will, on the following pages, portray and describe briefly a few of its leading features.



Deering Ideal Light-Draft Binder



A scene in the Middle West before the Deering Binder was even an inventor's dream.



DEERING IDEAL WIDE-CUT BINDER

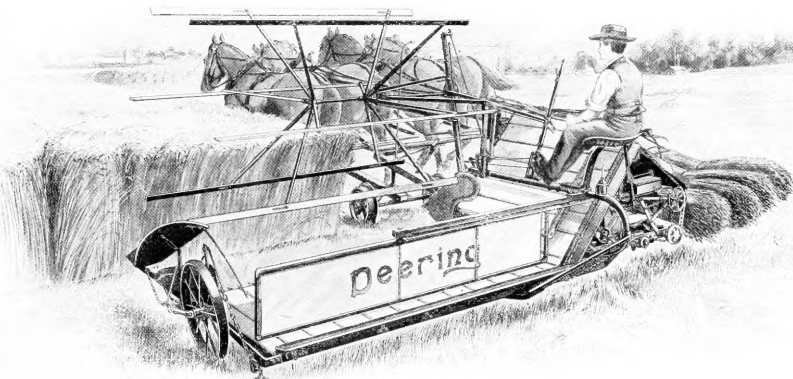


"Necessity is the mother of invention," and the seasonable harvesting of the vast grain fields found in some parts of the United States and Canada required a binder of immense capacity, so the Deering Wide-Cut Binder was perfected and its advent was hailed with delight by large grain growers everywhere.

It is so light of draft that the cutting of an 8-foot swath day after day is light and easy work for team and operator. The Deering Wide-Cut Binder contains all of the perfect features that have made the regular Ideal Binders so celebrated, and is also provided with a Deering Tongue Truck which abolishes the neck weight, side draft, and prevents thrashing of the team.

This binder is specially constructed to meet the increased demands put upon a machine of such large capacity, and is especially adapted for harvesting difficult crops.

Thousands of these wide-cut binders are in daily and satisfactory use during the harvest season and many thousands more will be used in the seasons yet to come.



Deering Ideal Wide-Cut Binder

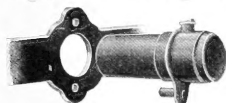


Wild pigeons used to be so plentiful that they would darken the sky in their flight.



DEERING MAIN FRAME AND MAIN WHEEL

THE Deering main frame is built of steel bars which are hot riveted and welded together, thus forming a solid whole, and is so scientifically braced and strengthened as to absolutely prevent any variation of the working parts. The Deering main-wheel spokes are riveted both in the hub and tire, forming what is known as a tension-spoke wheel. The tire has turned up edges and is corrugated, in this manner making ribs that give the utmost possible stiffness and strength, and forming a tire that will stand the largest amount of hard usage.

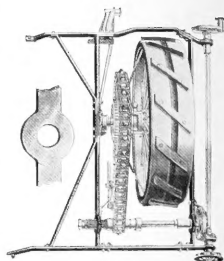


Self-aligning Bushings

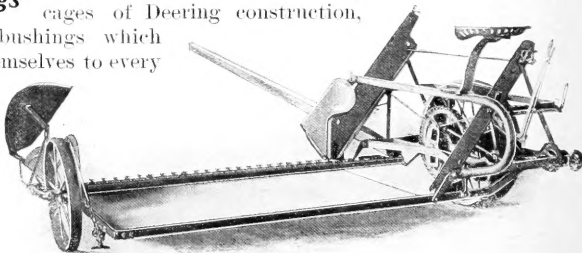
The steel frame surrounding the main wheel is secured to the finger bar by five one-half inch steel bolts. Upon the main frame are two main-wheel hangers which admit of raising or lowering the machine as desired, which is done by the use of a worm wheel and worm hung from the axle by a malleable casting. This casting is also used as a shield for worm and wheel and a barrier against mud or dust.

Self-aligning Bushings

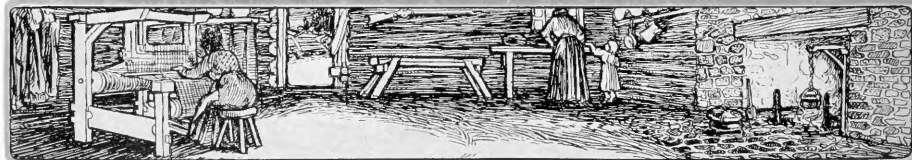
The shafts turn on roller-bearing cages of Deering construction, fitted within self-aligning bushings which allow the shafts to adapt themselves to every position without binding. These bearings are supported in the sills of the main frame which are specially formed for holding them. If it ever becomes necessary, these bushings can be easily removed and replaced by new ones.



Main Wheel of Ideal Binder



Main Frame of Ideal Binder



The old looms with which the wives of the early settlers made cloth for the entire family apparel.

Many of the early farmers had to carry their grain long distances to mill.

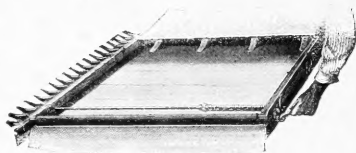


GEARS IN PERFECT MESH



A BALL bearing is located at the end of the Gear Shaft. This is an exclusive and excellent Deering feature and one not used upon other binders. It will be readily understood that the tendency of a beveled gear shaft upon any machine

is to move away from contact, and the old method of using a friction washer in prevention was not a success and was the cause of excessive and heavy draft. In the Deering Gear Shaft, by simply turning the ball bearing nut and replacing the key, the gear can always be kept in perfect mesh and light draft is thus insured at all times.



Deering Canvas Stretcher

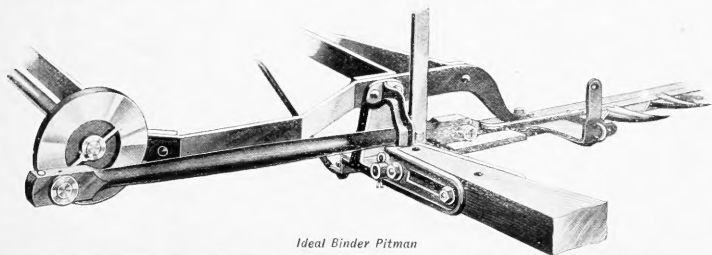
An Ideal Pitman

The crank wheel for driving the Ideal Binder Knife is counter-balanced and insures uniform motion of the sickle pitman at all times. This prevents stoppage and serves to carry the pitman over the "dead center." The Deering Ideal Pitman is long, strong, and effective. So strong and unerring is its stroke that the heaviest grain falls easily before the knives. It is rightly located and connected with the crank wheel on a line with the knives so that there is no power wasted on the down stroke.

Deering Canvas Tightener

A simple canvas tightener is controlled by a spring and is so arranged that it enables the operator to easily loosen or tighten the platform canvas at any time. The life of a canvas is greatly

increased if it is loosened at the close of a day's work or when the binder is not being used, and this should always be done.



Ideal Binder Pitman



The spinning and carding of wool were among the many duties of the pioneer housewife.



DEERING TILTING LEVER



HE driver can instantly place the machine in position for picking up lodged grain without leaving his seat, by means of the tilting lever located close to his hand. The perfect balance of the machine assists in obtain-

ing this immediate action without exertion and without imposing any neck weight upon the team.

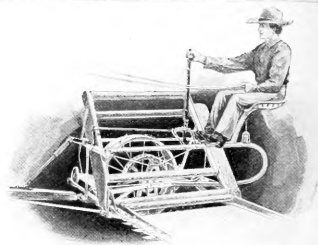
The Efficient Deering Reel

The Deering Reel is a marvel of efficiency and is in a class by itself, as its ingenious construction gives it a practically unlimited scope of action. It is controlled by one lever only, which is located conveniently to the hand of the driver, who can, easily and without leaving his seat, instantly place the reel in every conceivable position necessary to harvest long, short, down, or tangled grain.

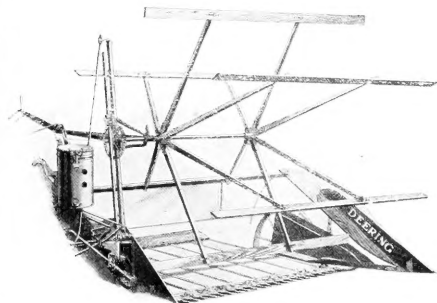
It is strong, well built, and of very simple construction, and the assistance of a counterbalance spring gives it a perfect balance at all times and greatly facilitates its operation. Any sagging of the reel can be remedied in a moment by means of an adjustable stay bolt provided for that purpose.

The choicest pieces of seasoned hickory wood are used in the construction of the Deering Reel, which is bolted to the tubular shaft in a most substantial manner.

When gathering short or tangled grain it is sometimes necessary to have the reel sweep down close to the knives. Owing to its construction this can be done without the slightest danger of the reel arms becoming caught by the fingers.



Tilting Lever of Ideal Linders



Famous Deering Reel



Old time cotton plantation near New Orleans.

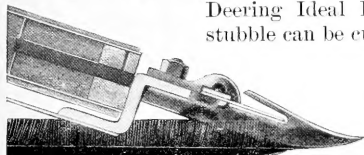


DEERING SHIFTING BINDER



THE formation of a neat round bundle is greatly assisted by a rocker arm which supports the Deering Binder Attachment and enables the operator to shift it to suit varying conditions of grain. The shifter lever as well as the adjuster lever, both of which give valuable assistance in the formation of a perfect sheaf, are conveniently located to the driver's right hand where they can be reached instantly, without losing sight of the team.

Cuts a Close Stubble Owing to the "Z" formation of the cutter bar and the ingeniously shaped knife guards or fingers on the Deering Ideal Binder a very close stubble can be cut without picking up rubbish and without danger of breakage when meeting with obstructions.



Cuts a Close Stubble

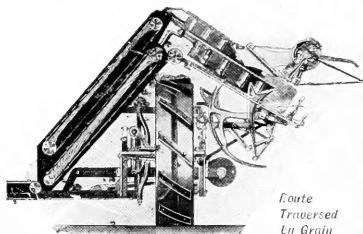
of power. There is a width of sixty-seven inches from the elevator frame to the rear yoke, which gives the advantage of large and roomy elevator space. The front elevator side of the Ideal Binder projects seven inches ahead of the knife, so that all kinds of grain enter the elevator square with the canvas. A simple and ingenious adjustment is provided for securing and holding the elevator canvases in proper position so that they will run true and not get out of square.



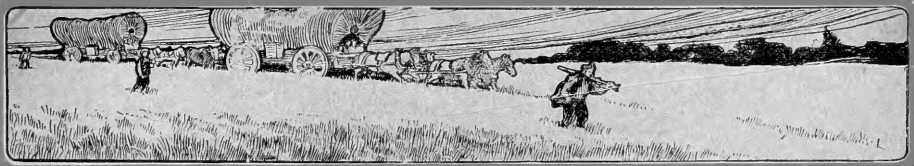
Ideal Binder Shifting Lever

Deering Elevators

Any kind of grain that grows can be handled without difficulty by the Deering elevators. The canvases are wide apart and the elevation is only thirty-three inches, thereby saving a large amount



Route Traversed by Grain



Entering the Western Reserve. These settlers from Connecticut were used to the hardships that a new country imposed.



DEERING IDEAL BINDING ATTACHMENT

THE first practical Twine Binding attachment was introduced in 1878, and the invention is of great historical importance, as it marked an epoch in harvesting history and rendered possible the successful harvesting of the vast wheat crops of the world and the feeding of the ever-increasing population of the earth. Since its first introduction this wonderful piece of mechanism has been greatly improved and simplified, and the Deering Ideal Binding Attachment of to-day is perfect in every detail, strong, simple, economical,

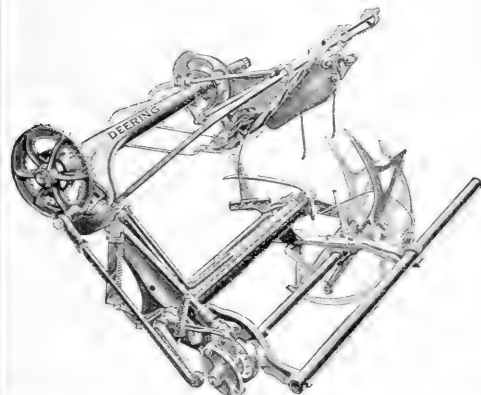


The Deering Knotter

The Economical Deering Knotter

and absolutely reliable. The Deering Knotter, which came into existence in 1883, has been practically unchanged since its first inception. No improvement could be made in it, as it is and always has been an unfailing tyer, free from complicated parts and adjustable to all conditions.

An excellent and economical feature of this knotter is that it takes up twine from the band to form the knot. The Deering Knotter is compact and the knotter hook and cord holder are very near together, so that there is but a very short piece of twine to be cut off. This saving amounts to considerable in the course of a season's harvest.



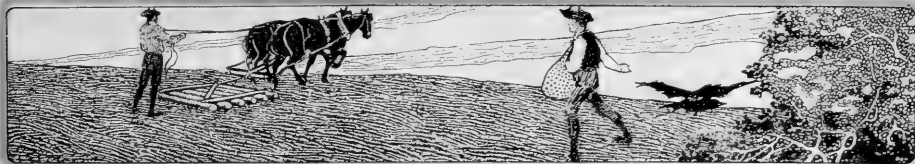
Deering Ideal Binder Attachment

The Deering Cord Holder moves only one-sixth of a revolution for each bundle. The six notches alternate in receiving the twine so that the wear is divided among six wearing surfaces instead of coming continuously on one or two.

Deering Knotters that have been in use every year for twenty years are to-day doing the same unerring knotting that they did on the first day.



Daniel Boone early in the 19th century. The famous trapper and hunter in the wilds of Missouri,



DEERING BUTT ADJUSTER

THE Deering Ideal Binder is the only machine in the world that is equipped with a double vibrating board butt adjuster. This admirable equipment insures the production of round, perfect sheaves and perfectly even butts.

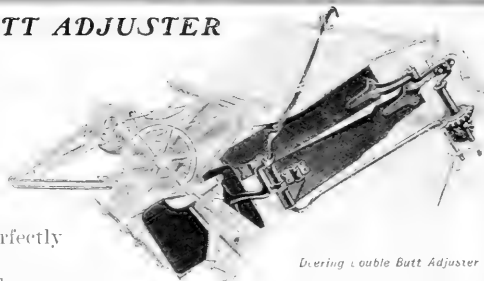
It consists of two separate boards, one of which is constantly in action, compelling a steady stream of grain to the packers and preventing accumulation.

A butt extension assists in squaring the butts and prevents short grain from escaping. The Deering Bundle Carrier is of remarkable efficiency and discharges the sheaves on their butts without bringing the heads in contact with the stubble and threshing out grain. The teeth, being curved, can not enter the ground and break when the machine is backed.

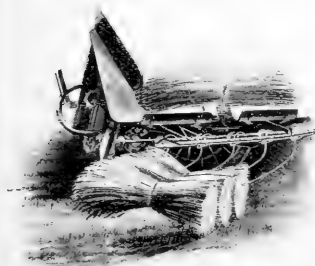
The Bundle Carrier can be dropped out of the way when it is desired to thread the knottor or oil the machine.

The six teeth of the Deering Bundle Carrier are parallel with the machine and hold the grain, should a bundle become broken. The teeth readily adapt themselves to every condition of ground, yield readily when coming in contact with obstructions, and fold out of the way when passing over bridges, through gates or narrow lanes.

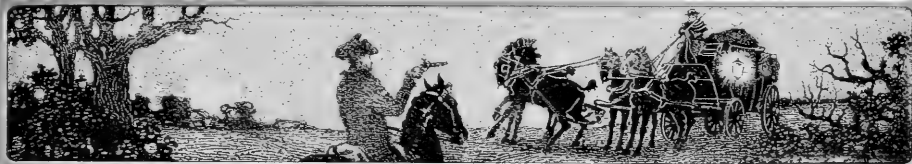
The Ideal Bundle Carrier is attached to the binder frame in line with the main wheel and the team thus relieved from possible neck weight, that might be created by a less ingenious construction.



Deering Double Butt Adjuster



Deering Ideal Bundle Carrier



A hold up. Stage coach stopped by a highwayman in the days of old.



DEERING BINDER TRANSPORT



The Deering Binder Transport or Truck was first placed upon the market in 1881, since which time it has steadily improved and perfected. The truck was brought to its present state of perfection in 1899 and is a model of simplicity and excellence.

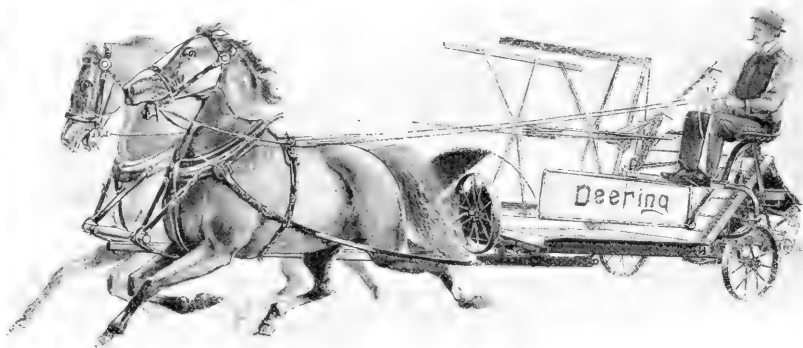
It consists of two wheels with stub axles, which weigh very little and can be easily carried with the hands, should it become necessary.

Danger of losing the binder parts is prevented as the machine can be mounted upon the transport without removing a single part except the tongue. The tongue connection is very simple and can be made in a few seconds.

It is unnecessary to remove the truck wheels from the axles either in mounting or dismounting the binder.

The binder can be mounted upon the transport in less than five minutes, and no hard lifting is required either in mounting or dismounting the machine.

The transport is strong and substantial and is constructed of the best quality of steel.



Deering Binder Mounted on Transport



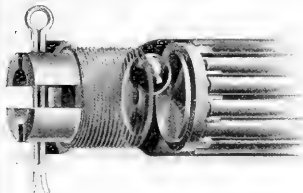
Negro slaves harvesting sugar cane one hundred years ago.



ROLLER AND BALL BEARINGS



The extreme light draft of the Deering Ideal Binder is one of the leading points of excellence, and so well has this point become known to farmers generally that the words "Deering Binder" and "Light Draft" are almost synonymous. The light draft is largely caused by the abundant use of Deering Roller and Ball Bearings.



Ball Bearing at End of Main Gear Shaft

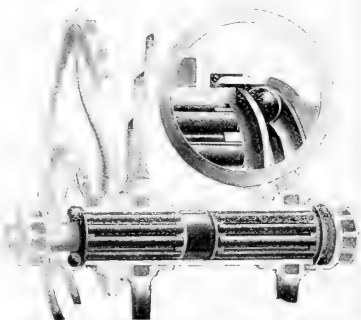
Deering Machines were the first harvesters to be equipped with Roller and Ball Bearings, and this equipment was deemed by many at the time to be the height of extravagance. But it has always been the Deering method to use the best materials that could possibly be obtained, and to hesitate at no expense that would improve Deering Harvesting machines, and so roller and ball bearings came to stay.

The Deering Roller and Ball Bearings represent the highest state of the art, and are constructed of the finest hardened steel; they are perfect and true and capable of use in operating the most delicate mechanism. The Great Deering Works is celebrated throughout the mechanical world for its superior method of making roller and ball bearings, and the reputation is deserved. The Deering Ideal Binder is equipped with these friction reducing appliances at every possible point where they would be of the slightest service. These devices are practically indestructible, as has been demonstrated by thirteen years of combined use. They are sometimes called "Bicycle" bearings, and the enormous capacity and light draft of the Deering Ideal Binder evidences that the name is most fitting.

Bearings on Main Axle

The illustration on this page shows an exclusive Deering method of construction designed to absolutely prevent end friction; also to prevent friction and wear when cutting on rough ground or side hills.

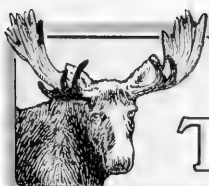
Two large cages of Deering Roller Bearings surround the main axle and fully accomplish the above result. This equipment is a large factor in making the name "Light Draft Ideal" a fitting one.



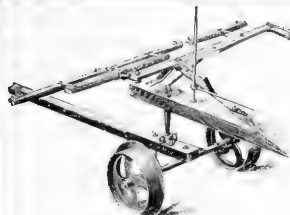
Roller and Ball Bearings on Main Axle of Ideal Binder



A prairie fire was a danger always to be feared. The dry grass would burn with startling rapidity.



DEERING TONGUE TRUCK



Deering Tongue Truck

There are good reasons why every binder, old or new, and regardless of style or make, should be equipped with a Deering Tongue Truck.

It is a boon to horses, for it saves their necks. Its cost is small, and it is adapted for any make of machine. It absolutely relieves the team from all neck weight and side draft, and there is no neck twist when turning corners, the turn being quickly and easily made.

It holds the equalizer in the same position at the same height at all times, even when it is necessary to drop the front of the machine down to cut very short grain. The tongue being held firmly and with no swing, makes and do better work. The machine does horses are removed, and it is not necessary to lift the weight of the machine when the team is attached.



Deering Tongue Truck on Deering Ideal Binder

It makes the draft of the machine lighter and causes the machine to last longer.

The following quotations are taken from letters of farmers who are using Deering Tongue Trucks:

"It is worth five times its price to save the horses in turning corners and from neck weight."

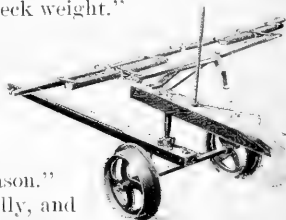
"I would not take \$100 for them and be barred from getting another pair."

"I will never buy another binder without this attachment."

"They are the greatest discovery out, both for man and horses."

"The saving of my horses is worth \$50 to me this season."

The sales of these trucks are increasing very rapidly, and farmers who are using them are enthusiastic in their praises.



Deering Tongue Truck



The strenuous method by which forest lands were converted into grain fields in early days.



DEERING HEADER



The Deering Header is a machine of wonderful capacity and contains many novel and excellent features. It has made a splendid reputation for itself in a short space of time. Its construction is principally of steel and it is patterned on what is known as the suspension plan.

The Deering Header is completely equipped with Roller and Ball Bearings and possesses large main sprocket and gear wheels, enabling it to start all parts instantly and without lost motion.

The tilting lever is conveniently located and easily operated, and gives a large range of tilt that ensures perfect work in all kinds and conditions of grain.

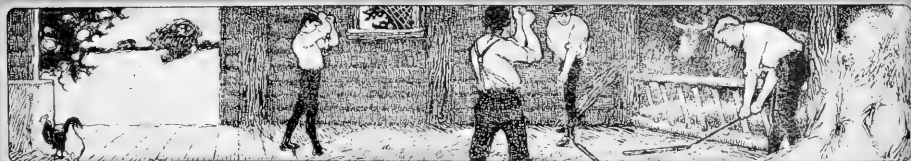
The reel can be instantly changed to suit all emergencies and is a most ingenious piece of mechanism.

The ledger-plated guards are located close to the cutter bar and the canvas close to the sickle, and as the elevator canvas runs one-fifth faster than the platform canvas, the grain can not possibly escape between the canvases.

The elevator chute will not rust or get out of shape, as it is made of wood.



Deering Header at Work



The flail was in general use for threshing grain at the time of the Louisiana purchase.



DEERING HEADER-BINDER



The Deering Header-Binder has twice the capacity of an ordinary binder and delivers a bound bundle every four feet.

The act of changing this machine from header to binder or the reverse takes but a few minutes' time and is an extremely simple operation.

Roller and Ball Bearings are generously used on this machine, which is of extremely light draft and easily operated.

The perfect Deering Knotter and a large Deering Binder attachment are part of the equipment, together with a strong adjustable reel and a bundle carrier of immense capacity. The butt-adjuster is provided with a strong steel web and does perfect work. The flow of grain is taken care of by the elevator, which is automatically adjustable to requirements.

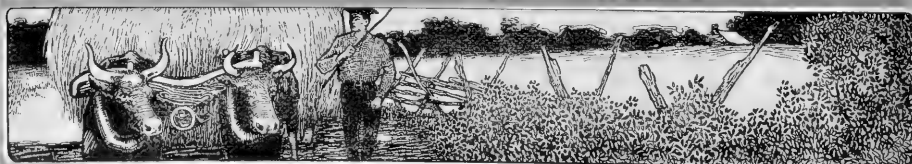
Three packers are provided for bringing the grain to the deck.

This machine is adapted for heading or binding all kinds of grain and is a favorite machine with the farmer who harvests a large acreage.

If interested obtain a "Heading Machine Catalog" of your Deering agent



Deering Header-Binder in the Field



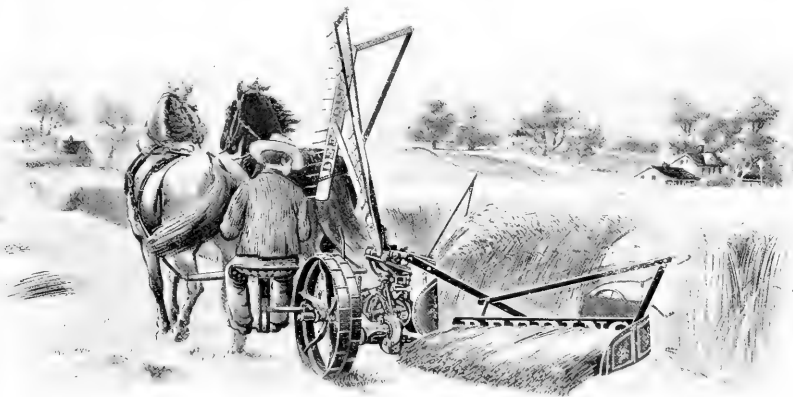
Hauling wild hay cut on the open prairies.

DEERING IDEAL REAPER

By means of the controlling device the four rakes of the Deering Ideal Reaper can be operated exactly as desired. Every rake, every second, every third, every fourth, or every fifth rake can be made to rake the platform. When desired on account of the grain being light all of the rakes can be made to operate as reels and not rake the platform until a sufficient quantity of grain has accumulated, and then by a simple touch of the foot the switch can be thrown open and the grain swept off of the platform by one of the rakes.

When turning corners it is generally desirable to prevent the rakes from raking so that the grain may be carried and deposited where it will not be in the way of the horses. By placing the foot upon the foot trip lever, the rakes will all be stopped from raking to resume again as soon as the foot pressure is released.

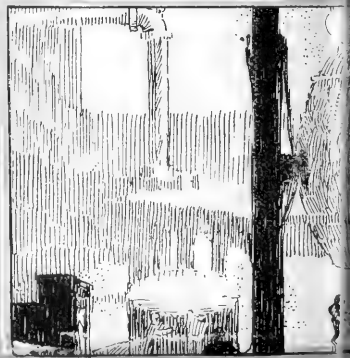
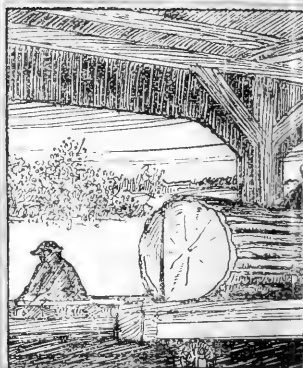
The Deering Reaper can be folded compactly with ease and in a few moments' time. When folded it occupies but little room; can be easily transported wherever a team can go, and stored away in a small space when not in use.

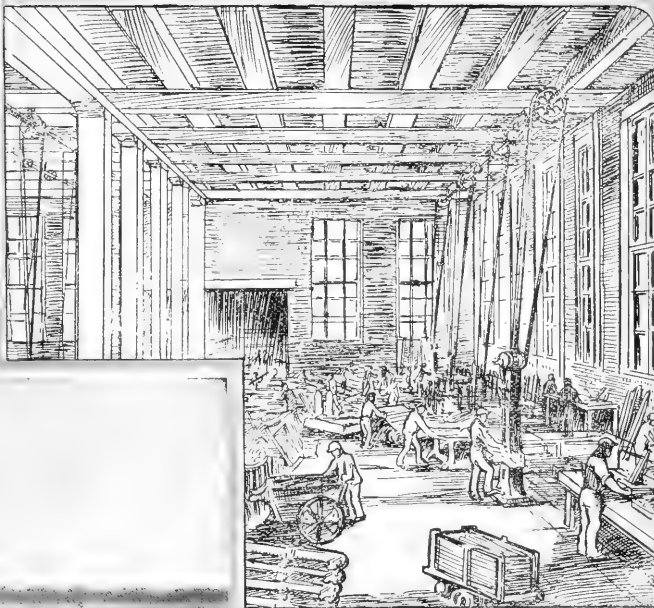
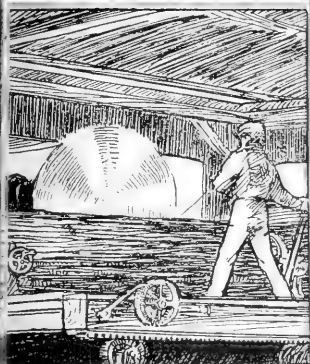


Deering Ideal Reaper—An Up-to-Date Machine



A welcome little visitor.





DEERING IDEAL MOWER

A sharp contrast to the methods employed one hundred years ago is found in the manner of harvesting hay at the present time by up-to-date Deering Hay Harvesting machines.

All of the hay can be quickly garnered now with a small amount of labor and at just the right time, and modern methods do not necessitate the employment of a large force of harvesters during haying time, as in the past.

The Deering Ideal Mowers are the favorite mowers with farmers of the world and are manufactured at the Great Deering Works in Chicago to the number of about 600 per day.

Equipped with Deering roller and ball bearings and containing every modern improvement, these mowers are "light draft ideal machines."

A few of the leading features that distinguish the celebrated machines will be briefly mentioned on the following pages.



The Reliable Deering Ideal Mower



Sharpening the tools for harvest time. The children of 1804 disliked this work extremely.



DEERING IDEAL GIANT MOWER



The Deering Ideal Giant Mower is equipped with a five, six, or seven-foot cutter bar as desired, and its capacity for cutting is much larger than that of the regular Ideal.

It is designed for harvesting large meadows and for handling the enormous crops of alfalfa, clover, and other grasses requiring a mower of extraordinary strength and capacity. It is built upon an extra wide frame of great strength and every part is especially constructed with a view of harvesting any crop that grows without difficulty and with a minimum of power.

It is equipped with Deering Roller and Ball Bearings and the cutter bar is reinforced, giving the greatest possible strength and rigidity at this important point.

It possesses all of the matchless features that have built up the splendid reputation achieved by the regular Deering Ideal Mower and is truly a giant in its capacity for work, although its draft is so light as to make it a worthy member of the "Light Draft Ideal" family.



Deering Ideal Giant Mower, 5, 6, or 7-foot Cut



Scutching flax one hundred years ago. New machines have since been invented but this old machine did better work.

DEERING IDEAL ONE-HORSE MOWER

The Deering Ideal One-Horse Mower is as thoroughly efficient and perfect in every respect as the larger mowers and possesses all of the valuable features found in the regular "Ideal."

It has a three-and-one-half foot width of cut and is preferred by many farmers on this account. Thousands of these one-horse mowers have been sold in Europe and America and they are all giving perfect satisfaction.

The Ideal One-Horse Mower can be operated successfully in many places where a large machine, drawn by two horses, could not possibly be used, and is especially valuable for use on small farms, parks, lawns, cemeteries, roadways, and side paths.

It can be operated more effectively and with greater ease and facility than can the two-horse mowers, and it is undoubtedly the lightest draft machine ever built. It is a beautiful and wonderfully efficient little machine and may fitly be called a "Little Giant."



Deering Ideal One-Horse Mower - 3 1/2-foot cut



The faithful Ox was the favorite draught animal a century ago.

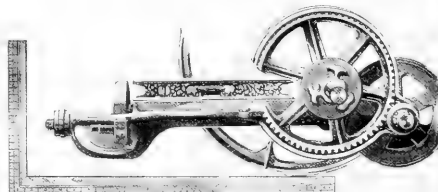


MAIN SHAFT AND GEAR SHAFT

DEERING roller bearings are applied to the main shaft and gear shaft, as shown in the illustration, and help to make the Deering Mower a "Light Draft Ideal." The bevel gear shaft and crank shaft are supplied with Deering ball bearings, thus preventing end friction. No better arrangement than the above for the reduction of friction could possibly be devised.

Mower Gears

At the first turn of the wheels the entire mower mechanism is in full action, as the powerful, exact meshing of the Deering mower gears compounds the motion twenty-six fold.



Horizontal Crank Shaft and Vertical Crank Wheel

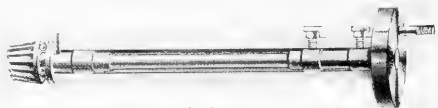
There is no lost motion whatever. The bevel gear is kept in proper mesh by a threaded ball bearing adjustment which overcomes end friction. Three pawls in the main wheel, one of which is always engaged, permit the Deering Mower to be stopped or started in heavy grass without backing.



Rollers on Main Shaft and Gear Shaft

Horizontal Crank Shaft

The pitman is enabled to operate in a direct line freely and without cranking or binding, no matter how the bar is tilted, as the horizontal crank shaft is always level. The front end of the crank shaft is supported by solid brass composition boxes which are easily removed and renewed at small expense. Deering Mower supremacy is the result of careful attention to the little details that make the entire perfect machine. No part is too unimportant to receive the best expert attention. Every part is made as nearly perfect as is possible.



Horizontal Crank Shaft showing Ball Bearings





KNIFE CHANGED IN FIFTEEN SECONDS



HE pitman and knife-head of a Deering Ideal Mower may be connected or disconnected, and a complete change of knives made in fifteen seconds, without the

aid of any kind of tool whatever.

The Ideal Mower Pitman The Deering Ideal Pitman is constructed of the best second growth hickory with couplings of forged steel.

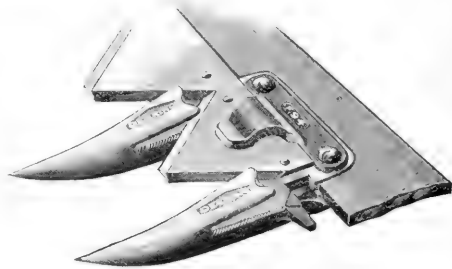
It has a positive and direct stroke like the connecting rod of a locomotive. position or tilt of the cutter bar. It is protected by the Deering Adjustable Drag Bar.

Wearing Plates Save the Bar

steel wearing plates which are attached to the finger bar at different points. The knife slides along these wearing plates and the bar is saved from wear. These plates can be renewed at trifling expense when after long use they have become worn out.

Deering Knife Sections

The across is a guaranty that it is made of the steel and is oil-tempered. It is an as every respect. Deering sections are fast which assist in clearing the guards of



Spring Steel Clip on Finger Bar

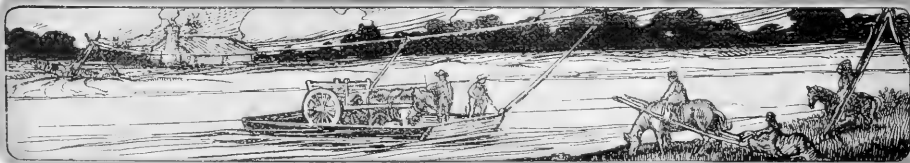
Its action is perfectly free, regardless of the

A Deering device for saving money for users of Deering mowers is found in the use of five

name "Deering" stamped the face of a knife section finest quality of cutlery surance of first quality in ened with oval-headed rivets accumulated grass or dirt. This method of fastening a section to a knife back is a most perfect means of obtaining durability and strength.



Deering Ideal Pitman



The Old Ferry. The Ferry astonished the Indians and was a great factor in developing the West.



DEERING FOOT LIFT AND CUTTER BAR

BY means of the Deering Foot Lift the immediate raising or lowering of the bar is perfectly under the control of the operator at all times. It is easy to operate, quick to respond, and never fails. A coiled spring assists in the raising and enables the bar to be floated at will. The cutter bar is held firmly in position when folded by means of an ingenious spring-held lever having a hook at the end of it. When thus latched it can not by any possible means become disengaged unless desired by the operator, who can, however, when it is desired to lower the bar, instantly release same by pushing the tilting lever forward.

The Adjustable Drag Bar

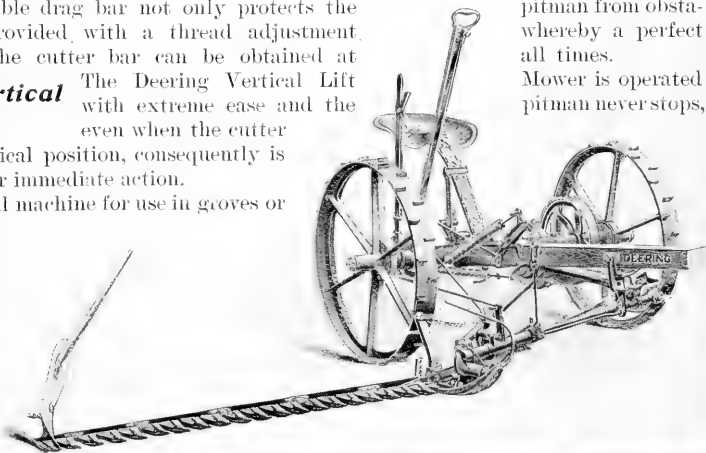
The adjustable drag bar not only protects the cles, but is provided with a thread adjustment alignment of the cutter bar can be obtained at

Deering Vertical Lift Mower

The Deering Vertical Lift Mower with extreme ease and the even when the cutter bar is in a vertical position, consequently is always ready for immediate action.

It is an ideal machine for use in groves or stumpy fields, and on sloping banks.

Farmers using this mower will find it all that could be desired.



Deering Vertical Lift Mower



Rafting down the Ohio River one hundred years ago. The rivers were the natural highways of the West.



DEERING IDEAL HAY RAKE



Thousands of Deering Ideal Hay Rakes are sold in Europe alone each year. Thousands upon thousands are sold in America.

The sale is steadily increasing and the purchasers are thoroughly satisfied. The Ideal Rakes are furnished either for horse or hand dumping, and every modern improvement is contained in their construction.

The extreme simplicity and extraordinary strength of Deering Rakes are their leading characteristics. A child can operate them, they can not easily get out of order, and they are always ready for instant use.

The Deering Rakes are constructed almost entirely of first quality steel, and the wheels, which are the strongest ever put upon a rake, are interchangeable and provided with removable sleeves that can be replaced at a small expense.

A combination pole and thills is furnished with every rake so that either one or two horses may be used as desired.



Deering Horse Dump Rake



Killing bears for their meat and skins one hundred years ago. Forty bears were frequently killed in one hunt.



IDEAL HORSE DUMP RAKES

O VAL Cleaner Rods hung so that they yield upward and return by gravity insure perfect dumping. The pawls are protected, being enclosed within the rake wheel hubs. The operator can control the making of large or small windrows with either fast or slow dumping. The teeth return instantly after dumping the load, this being provided for in a simple and ingenious manner. The centrally located tripping mechanism prevents premature tripping.

Deering Hand Dump Rakes These rakes are perfectly balanced and the weight of the driver assists in raising the teeth. The position of the teeth can be changed at will by using the adjustable latch shown on this page. This can be done in an instant and while the rake is in operation, thus immediately adapting the rake to any kind or condition of raking.



Det. II of Adjustable Latch, Ideal Hand Dump Rake

List of Deering Horse Dump Rakes

8 foot	20 teeth
8 foot	26 teeth
9 foot	24 teeth
9 foot	30 teeth
10 foot	26 teeth
10 foot	34 teeth
12 foot	30 teeth
12 foot	40 teeth

The large number of these rakes sold every season evidences their popularity.

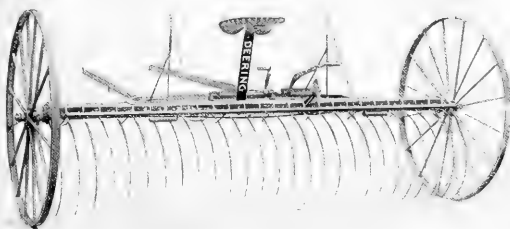
All Deering Ideal Rakes, except the 8-foot sizes, are built with a substantial truss rod which greatly strengthens the axle and insures against springing of same.

Few Bolts to Watch The steel tooth holders each secure a number of teeth and consequently

a small number of bolts only are required to hold the teeth to the rake-head, leaving but a small number of nuts to watch and tighten.

List of Deering Hand Dump Rakes

8 foot	20 teeth
8 foot	26 teeth
9 foot	24 teeth
9 foot	30 teeth
10 foot	34 teeth
10 foot	26 teeth
12 foot	30 teeth



Deering Ideal Hand Dump Rake



Creek Indian War. The white forces were directed by the famous scout, Davy Crockett, and were victorious.



DEERING IDEAL CORN BINDER

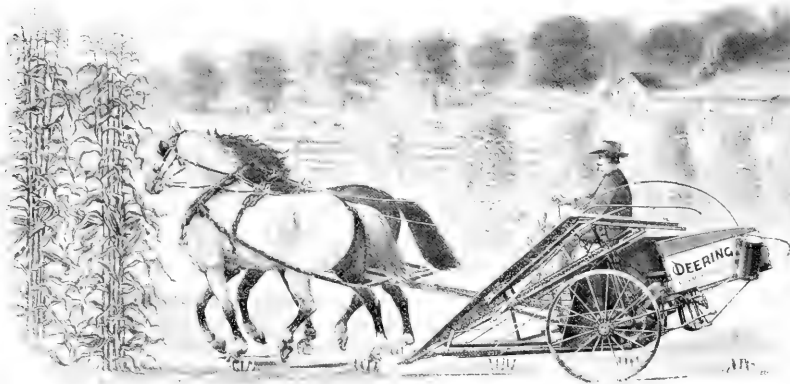


It is now generally acknowledged by farmers that a corn binder is as necessary a part of a farm machine equipment as a grain binder, and that the advent of the corn binder and the shredder have doubled the value of the corn crop.

The Deering Ideal Corn Binder is not an experiment; it has proved its excellence on thousands of fields and its popularity has increased every year.

The features in which it excels are many, any one of which would be a substantial reason for selecting a Deering. Among others may be mentioned the enclosed gear drive, immediate and direct distribution of power, real shifting binder and capacious bundle carrier, also its wide frame, 37-inch drive wheel, roller and ball bearings, covered oil cups, bell-knuckled joints, and self-adjusting boxes.

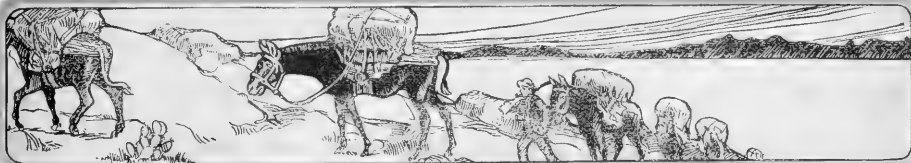
Its butt-adjuster really adjusts, no corn can escape its gatherers, and it has a perfect tilting device. A fly wheel on ball bearings governs the knife, the cutter bar has wearing plates, the knife clip is extended, the pitman is rightly located, the machine is perfectly balanced, and the driver's seat is located high. It is a Light Draft Ideal.



Deering Ideal Horizontal Corn Binder



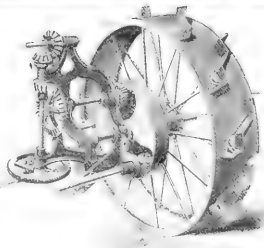
Fort Dearborn at Chicago as it appeared in 1804.



DEERING MAIN GEAR DRIVE

THE power for operating the entire Corn Binder is distributed directly and immediately from the main gear drive, which is located on one solid cast frame like the gears of a mower, and is *enclosed*, this forming a perfect protection for the gears and preventing the interference of stalks, weeds, dust, or mud. The use of loose hanging chain at this point is abolished.

A Real Shifting Binder This machine is like a grain binder, and the corn is bound while in a horizontal position, thus saving power used in lifting the stalks. The Deering shifting binder has a real shift and a twenty-one-inch range of adjustment can be obtained, thereby allowing the operator to place the band exactly where desired regardless of the height of the corn.

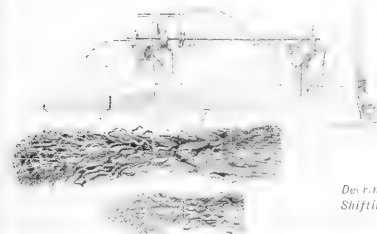


Main Wheel and Enclosed Gears

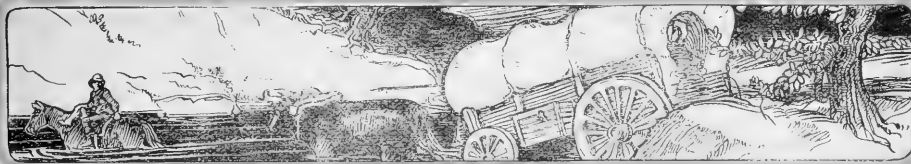
Butt Adjuster and Bundle Carrier The butt adjuster consists of a stationary wing and a constantly moving adjuster board, is simple and so effective that every bundle of corn is as squarely and quickly butted as are bundles of small grain by the Deering Grain Binder. The Bundle Carrier is of immense capacity and rightly located, and several bundles can be carried at one time and deposited to one side and out of the way.

Brief Mention Neither long, short, down, or tangled corn can escape the Deering gathering equipment, which is admirable. The large range of tilt possessed by the Deering Corn Binder also adds greatly to its efficiency, and the cutting mechanism is mechanically correct.

Further details regarding this wonderful machine can be found in the corn circulars, which will be issued later in the season.



Deering Shifting Binder



Fording the stream. It took perseverance and pluck to overcome the hardships of a new country.

DEERING CORN SHOCKER

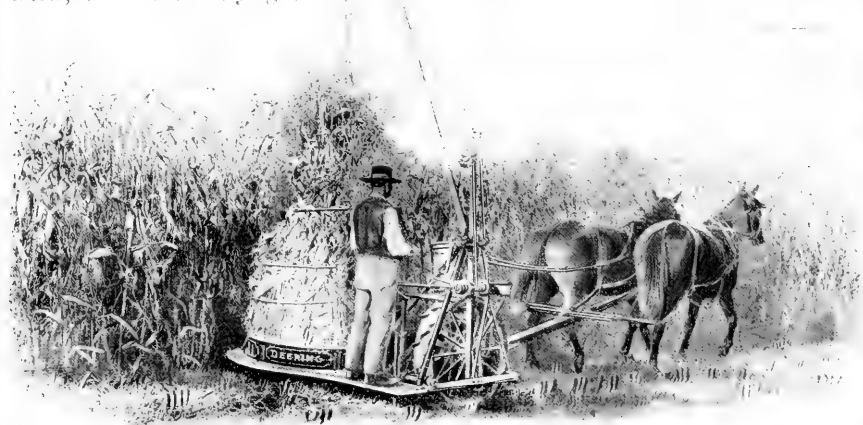
Ingenious harvester construction has reached its culmination in the recent valuable Deering invention known as the Deering Corn Shocker. Its value as a saver of labor is evidenced by the fact that one man and a team of horses only are required in its operation, thus effecting a saving of two or more field hands. It also is a saver of twine, but a small quantity being used.

The main frame, which is strongly trussed and capable of sustaining an immense weight, forms the solid foundation, and the 37-inch main wheel is strong and enduring.

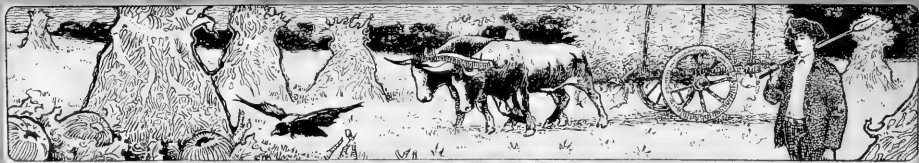
The Corn Binder model is closely followed in the gathering equipment and cutting mechanism, and the machine is thoroughly equipped with Deering roller and ball bearings. The substantial elevating crane upon in the heaviest work, and correct scientific and mechanical construction of the entire machine is constructed on ideal lines.

The materials used in construction of the same superior quality as made at the Great Deering Works, Like the other Deering harvesters, it is of extremely light

drift.



Deering Corn Shocker



"When the frost is on the pumpkin and the corn is in the shock." An early American autumn scene.



DEERING HUSKER and SHREDDER



Deering Huskers and Shredders are made in two sizes — the two-roll machine, for use by the individual farmer on a moderate sized farm, and the four-roll machine, for use on a very large farm or by a club of farmers. Both machines can be operated by the ordinary help found on a farm. The machines are provided with transportation trucks of regulation wagon width.

There are many superior features found in these machines, details of which will be found in a pamphlet on the subject. Among them are the rightly located feeding table and operator's stand, the superior construction of the husking and feeding rollers, and the shredder head, which shreds without pulverizing the leaves. A combined cutter and shredder head can be secured, if desired, for making fine cut fodder.

The machines are equipped with roller bearings, reciprocating screen and beater for separating and saving shelled corn, and a fan of special design that is unequaled.

A pipe and elbow giving unlimited range of adjustment, and a safety lever that prevents possibility of accident, are valuable features. There are many others, as the machines contain every up-to-date device that human ingenuity can conceive.



Deering Four-Roll Husker and Shredder



Shoeing draft cattle. Cattle were helpless when raised off of the ground and then easily shod.



DEERING FLAX CARRIER

T

HE Deering Flax Carrier is an efficient substitute for a reaper and is easily and quickly attached to a binder. It is invaluable for harvesting flax, buckwheat, seed grasses, and other grains that should be harvested unbound.



Deering Flax Carrier

Deering Canvas Cover

To protect machines that are left in the fields over night, or in case of a storm, a Deering Canvas Cover should be used. It protects the machine thoroughly, being made of heavy waterproof duck, and is not expensive.

Deering Harvester Oil

Good oil is an essential to smooth working harvesting machines. Deering Harvester Oil and Deering Extra Harvester Oil are made for use in any climate and invariably give satisfaction.

Deering Ideal Knife Grinder

The Deering Knife and Tool Grinder should be a part of every farm equipment. It can be attached to the mower wheel and used in the field or attached to a bench or box for use when at home. As a sickle grinder it can be used to grind any make of mower knives—it imparts a uniform bevel and grinds sections from point to heel. It does not round off the points of the section, it grinds out nicks or broken edges, and is an extremely rapid working machine. It has a long, substantial sickle holder, and the sickle is always kept in plain sight. An additional flat stone for grinding tools and a narrow stone for grinding cross-cut saws can be procured at a trifling additional cost. By use of the flat stone the grinder can be used for putting an edge upon almost every implement found upon a farm that requires sharpening. The Deering Knife Grinder is becoming very popular with farmers everywhere as is evidenced by the constantly increasing sales of this machine.



Deering Knife Grinder



Hauling wild hay cut on the open prairies.



DEERING BINDER TWINE



NOT A SINGLE COMPLAINT

Not a complaint or adverse criticism has been heard from any of the one million farmers who used Deering Binder Twine during last season. Modern machinery, a rigid system of inspection, and the extreme care with which every foot is made have created an enviable reputation for this product. No Deering Twine is ever put upon the market unless it is perfect. It must be "even and long," "smooth and strong," and of the full length called for by the tag. The Deering flat twine bale is of convenient form and can be carried under the arm or placed beneath the seat of a buggy. Each bale contains ten balls weighing five pounds each. Every ball is exactly what it is labeled, each brand being represented by a differently colored tag as follows:

Guaranteed Pure Manila (650 feet), red tag.
Manila (600 feet), blue tag.

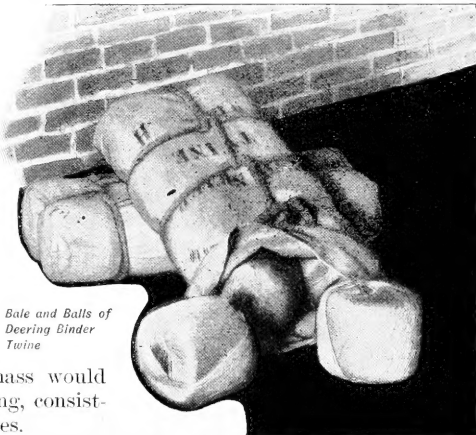
Standard Manila (550 feet), white tag.
Standard (500 feet), brown tag.

Pure Sisal (500 feet), yellow tag.

In purchasing binder twine, farmers who desire to be absolutely safe and save themselves all possibility of annoyance during harvest should see that the Deering tag is attached to each ball purchased. They can rely upon its being "just what the tag says it is."

Deering Binder Twine is produced at the rate of thirty thousand miles per day, or about fifty miles per minute, and an army of skilled workmen are engaged in its manufacture.

When we say that thirty miles of Deering Twine is made every minute, one scarcely comprehends that the output for a single day would encircle the earth, with several thousand miles to spare. To move this immense mass would require a freight train twenty miles long, consisting of 2,500 box cars and 100 locomotives.



*Bale and Balls of
Deering Binder
Twine*

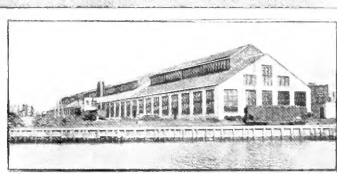
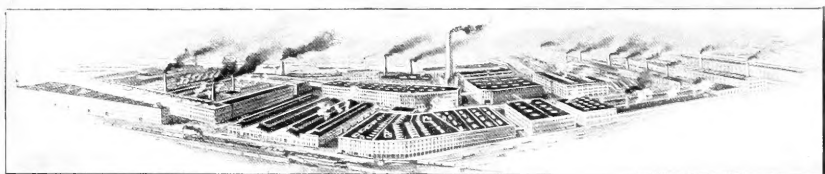
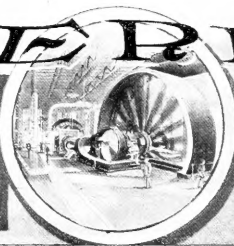


Making barrels. The early settler was generally his own cooper.

During the early Indian wars children rode to school in this fashion.

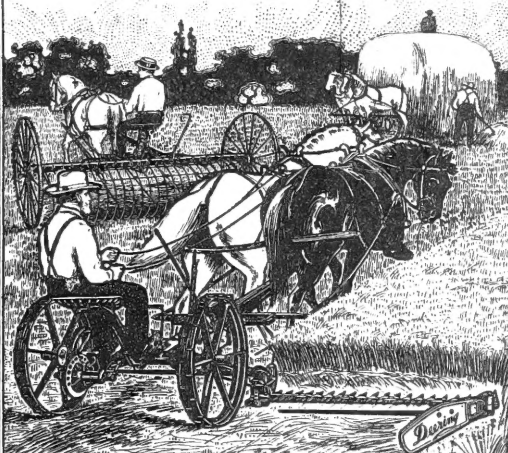


DEERING



Announcing an Indian uprising in the Far West one hundred years ago.

DEERING



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